· RECEIVED

SEP 06 2000

Page 1 of 7

Linda

1632

Allot

ين ادانيم وار . رب. . ا

TECH CENTER 1600/2900

RAW SEQUENCE LISTING

DATE: 08/24/2000

PATENT APPLICATION: US/09/511,008

TIME: 16:12:39

05/09/311,008 11ME. 10.12...

Input Set : A:\020618-6.app
Output Set: N:\CRF3\08232000\I511008.raw

ENTERED

```
3 <110> APPLICANT: Hageman, Gregory S.
         University of Iowa Research Foundation
   <120> TITLE OF INVENTION: Diagnostics and Therapeutics for Arterial Wall
         Disruptive Disorders
 9 <130> FILE REFERENCE: 020618-000600US
11 <140> CURRENT APPLICATION NUMBER: 09/511,008
12 <141> CURRENT FILING DATE: 2000-02-22
14 < 150 > PRIOR APPLICATION NUMBER: US 60/120,822
15 <151> PRIOR FILING DATE: 1999-02-19
17 <150> PRIOR APPLICATION NUMBER: US 60/120,668
18 <151> PRIOR FILING DATE: 1999-02-19
20 <150> PRIOR APPLICATION NUMBER: US 60/123,052
21 <151> PRIOR FILING DATE: 1999-03-05
23 <160> NUMBER OF SEQ ID NOS: 25
25 <170> SOFTWARE: PatentIn Ver. 2.1
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 6
29 <212> TYPE: PRT
30 <213> ORGANISM: Artificial Sequence
32 <220> FEATURE:
33 <223> OTHER INFORMATION: Description of Artificial Sequence:elastin
34
         degradation product (EDP)
36 <400> SEQUENCE: 1
37 Val Gly Val Ala Pro Gly
38
41 <210> SEQ ID NO: 2
42 <211> LENGTH: 21
43 <212> TYPE: DNA
44 <213> ORGANISM: Artificial Sequence
46 <220> FEATURE:
47 <223> OTHER INFORMATION: Description of Artificial Sequence:RT-PCR primer
49 <400> SEQUENCE: 2
50 gtcgagatgc acacaagagt g
                                                                        21
53 <210> SEQ ID NO: 3
54 <211> LENGTH: 22
55 <212> TYPE: DNA
56 <213> ORGANISM: Artificial Sequence
58 <220> FEATURE:
59 <223> OTHER INFORMATION: Description of Artificial Sequence:RT-PCR primer
61 <400> SEQUENCE: 3
                                                                        22
62 teetteagtt tactggagat cg
65 <210> SEQ ID NO: 4
66 <211> LENGTH: 21
67 <212> TYPE: DNA
68 <213> ORGANISM: Artificial Sequence
70 <220> FEATURE:
71 <223> OTHER INFORMATION: Description of Artificial Sequence:RT-PCR primer
```

RAW SEQUENCE LISTING DATE: 08/24/2000 PATENT APPLICATION: US/09/511,008 TIME: 16:12:39

Input Set : A:\020618-6.app

Output Set: N:\CRF3\08232000\I511008.raw

```
73 <400> SEOUENCE: 4
74 gccaggaata tgaacaagcc g
                                                                       21
77 <210> SEQ ID NO: 5
78 <211> LENGTH: 21
79 <212> TYPE: DNA
80 <213> ORGANISM: Artificial Sequence
82 <220> FEATURE:
83 <223> OTHER INFORMATION: Description of Artificial Sequence:RT-PCR primer
85 <400> SEQUENCE: 5
86 caaatcccca atetetecca c
89 <210> SEQ ID NO: 6
90 <211> LENGTH: 21
91 <212> TYPE: DNA
92 <213> ORGANISM: Artificial Sequence
94 <220> FEATURE:
95 <223> OTHER INFORMATION: Description of Artificial Sequence:RT-PCR primer
97 <400> SEQUENCE: 6
98 tgaacaccaa cttcttccac g
                                                                       21
101 <210> SEQ ID NO: 7
102 <211> LENGTH: 22
103 <212> TYPE: DNA
104 <213> ORGANISM: Artificial Sequence
106 <220> FEATURE:
107 <223> OTHER INFORMATION: Description of Artificial Sequence: RT-PCR primer
109 <400> SEOUENCE: 7
                                                                        22
110 ggcgacctca gtaattttct tg
113 <210> SEQ ID NO: 8
114 <211> LENGTH: 19
115 <212> TYPE: DNA
116 <213> ORGANISM: Artificial Sequence
118 <220> FEATURE:
119 <223> OTHER INFORMATION: Description of Artificial Sequence: RT-PCR primer
121 <400> SEQUENCE: 8
122 ggtcgctttt gggattacc
125 <210> SEQ ID NO: 9
126 <211> LENGTH: 21
127 <212> TYPE: DNA
128 <213> ORGANISM: Artificial Sequence
130 <220> FEATURE:
131 <223> OTHER INFORMATION: Description of Artificial Sequence:RT-PCR primer
133 <400> SEQUENCE: 9
134 ctccagttcc gatttgtagg c
137 <210> SEQ ID NO: 10
138 <211> LENGTH: 20
139 <212> TYPE: DNA
140 <213> ORGANISM: Artificial Sequence
142 <220> FEATURE:
143 <223> OTHER INFORMATION: Description of Artificial Sequence: RT-PCR primer
```

145 <400> SEQUENCE: 10

 RAW SEQUENCE LISTING
 DATE: 08/24/2000

 PATENT APPLICATION: US/09/511,008
 TIME: 16:12:39

Input Set : A:\020618-6.app

Output Set: N:\CRF3\08232000\1511008.raw

```
20
146 gttcaagtca gaaaaggggc
149 <210> SEQ ID NO: 11
150 <211> LENGTH: 22
151 <212> TYPE: DNA
152 <213> ORGANISM: Artificial Sequence
154 <220> FEATURE:
155 <223> OTHER INFORMATION: Description of Artificial Sequence:RT-PCR primer
157 <400> SEQUENCE: 11
158 gtgtcttggt gaagtggatc tg
                                                                        22
161 <210> SEQ ID NO: 12
162 <211> LENGTH: 22
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: Description of Artificial Sequence:RT-PCR primer
169 <400> SEQUENCE: 12
170 atggtatgtg gacgatcaag gc
173 <210> SEQ ID NO: 13
174 <211> LENGTH: 22
175 <212> TYPE: DNA
176 <213> ORGANISM: Artificial Sequence
178 <220> FEATURE:
179 <223> OTHER INFORMATION: Description of Artificial Sequence:RT-PCR primer
181 <400> SEQUENCE: 13
182 tattgctcgg taaccttccc tg
185 <210> SEQ ID NO: 14
186 <211> LENGTH: 21
187 <212> TYPE: DNA
188 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: Description of Artificial Sequence: RT-PCR primer
193 <400> SEQUENCE: 14
194 aatgagcccc tggagtgaat g
                                                                        21
197 <210> SEQ ID NO: 15
198 <211> LENGTH: 22
199 <212> TYPE: DNA
200 <213> ORGANISM: Artificial Sequence
202 <220> FEATURE:
203 <223> OTHER INFORMATION: Description of Artificial Sequence: RT-PCR primer
205 <400> SEQUENCE: 15
206 atgtcagagt gtttccatcc cg
209 <210> SEQ ID NO: 16
210 <211> LENGTH: 22
211 <212> TYPE: DNA
212 <213> ORGANISM: Artificial Sequence
214 <220> FEATURE:
215 <223> OTHER INFORMATION: Description of Artificial Sequence: RT-PCR primer
217 <400> SEQUENCE: 16
218 gagcgagttc tacatcctaa cg
```

RAW SEQUENCE LISTING DATE: 08/24/2000 PATENT APPLICATION: US/09/511,008 TIME: 16:12:39

Input Set : A:\020618-6.app

Output Set: N:\CRF3\08232000\I511008.raw

```
221 <210> SEQ ID NO: 17
     222 <211> LENGTH: 22
     223 <212> TYPE: DNA
     224 <213> ORGANISM: Artificial Sequence
     226 <220> FEATURE:
     227 <223> OTHER INFORMATION: Description of Artificial Sequence: RT-PCR primer
     229 <400> SEQUENCE: 17
     230 cacgaagtag gtgtccttga ag
     233 <210> SEQ ID NO: 18
     234 <211> LENGTH: 21
     235 <212> TYPE: DNA
     236 <213> ORGANISM: Artificial Sequence
     238 <220> FEATURE:
     239 <223> OTHER INFORMATION: Description of Artificial Sequence: RT-PCR primer
     241 <400> SEQUENCE: 18
                                                                             21
     242 agactggaac tacaaatgcc c
     245 <210> SEQ ID NO: 19
     246 <211> LENGTH: 21
     247 <212> TYPE: DNA
     248 <213> ORGANISM: Artificial Sequence
     250 <220> FEATURE:
     251 <223> OTHER INFORMATION: Description of Artificial Sequence: RT-PCR primer
     253 <400> SEQUENCE: 19
     254 agattcagag tgccattgtc c
     257 <210> SEO ID NO: 20
     258 <211> LENGTH: 24
     259 <212> TYPE: DNA
     260 <213> ORGANISM: Artificial Sequence
     262 <220> FEATURE:
     263 <223> OTHER INFORMATION: Description of Artificial Sequence: RT-PCR primer
     265 <220> FEATURE:
     266 <221> NAME/KEY: modified_base
     267 <222> LOCATION: (10)
     268 <223> OTHER INFORMATION: i
     270 <400> SEQUENCE: 20
W--> 271 acgtttgatn tccasyttgg tccc
                                                                             24
     274 <210> SEQ ID NO: 21
     275 <211> LENGTH: 24
     276 <212> TYPE: DNA
     277 <213> ORGANISM: Artificial Sequence
     279 <220> FEATURE:
     280 <223> OTHER INFORMATION: Description of Artificial Sequence: RT-PCR primer
     282 <220> FEATURE:
     283 <221> NAME/KEY: modified_base
     284 <222> LOCATION: (10)
     285 <223> OTHER INFORMATION: i
     287 <220> FEATURE:
     288 <221> NAME/KEY: modified_base
```

289 <222> LOCATION: (16)

RAW SEQUENCE LISTINGPATENT APPLICATION: US/09/511,008

DATE: 08/24/2000

TIME: 16:12:39

Input Set : A:\020618-6.app

Output Set: N:\CRF3\08232000\I511008.raw

```
290 <223> OTHER INFORMATION: i
      292 <400> SEQUENCE: 21
W--> 293 gamatyswgn atgachcagt ctcc
296 <210> SEQ ID NO: 22
297 <211> LENGTH: 23
298 <212> TYPE: DNA
                                                                                         24
      299 <213> ORGANISM: Artificial Sequence
    * 301 <220> FEATURE:
      302 <223> OTHER INFORMATION: Description of Artificial Sequence: RT-PCR primer
      304 <400> SEQUENCE: 22
      305 acctaracgg tsasctkggt ccc
308 <210> SEQ ID NO: 23
309 <211> LENGTH: 22
                                                                                         23
     310 <212> TYPE: DNA
311 <213> ORGANISM: Artificial Sequence
      313 <220> FEATURE:
      314 <223> OTHER INFORMATION: Description of Artificial Sequence: RT-PCR primer
      316 <400> SEQUENCE: 23
      317 tcytmtgwgc tgactcagsm cc
      320 <210> SEQ ID NO: 24
      321 <211> LENGTH: 19
      322 <212> TYPE: DNA
      323 <213> ORGANISM: Artificial Sequence
      325 <220> FEATURE:
      326 < 223 > OTHER INFORMATION: Description of Artificial Sequence:RT-PCR primer <math>328 < 400 > SEQUENCE: 24
      329 gggctggatg aggactcag
      332 <210> SEQ ID NO: 25
      333 <211> LENGTH: 20
      334 <212> TYPE: DNA
      335 <213> ORGANISM: Artificial Sequence
      337 <220> FEATURE:
      338 <223> OTHER INFORMATION: Description of Artificial Sequence:RT-PCR primer
      340 <400> SEQUENCE: 25
      341 aaggcaacag gcttcttcag
```

VERIFICATION SUMMARY

DATE: 08/24/2000 TIME: 16:12:40

PATENT APPLICATION: US/09/511,008

Input Set : A:\020618-6.app
Output Set: N:\CRF3\08232000\I511008.raw

L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 L:293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21